

# Mechanization of modeling, simulation, amplification, and intelligence of software

## Abstract of Disclosure

The invention models software as a physical device with causality. It develops interaction between software and user in a software dynamic system that connects software or modeled software with a software controller. The software is modeled with its input/output behavior on a discrete sampling domain and is controlled by the controller in a modeling software dynamic system while its behavior is observed real-time to identify its model. The modeled software is controlled by the same controller in a simulation software dynamic system, which can be augmented programmatically. Augmentations integrated with the controller construct a software amplifier coupling the modeled software and user interactively and automatically. The modeled software represents domain knowledge simulated in the augmented system as software intelligence. A *software-2* including the modeled software, the software controller, and augmentations is created. *Software-2* integrated with real-time communication distributes over Internet with a Master-Machine-Learner loop as a new interactive media.